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OM protein - protein search, using sw model

Run on: March 15, 2002, 05:49:49 ; Search time 27.25 seconds  
(without alignments)  
446.763 Million cell updates/sec

Title: US-09-652-292-2  
Perfect score: 2765

Sequence: 1 MGHSPVPLKASVSLGLGL.....GHRNSTGIPYSRIEISAS 541

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues  
Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_AA.\*  
1: /cgn2\_6/ptodata/2/1aa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/1aa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/1aa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/1aa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/1aa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/1aa/Backfile1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	438	15.8	584	2	US-08-928-692-13
2	427	15.4	493	2	US-09-031-392-10
3	427	15.4	493	4	US-09-299-549-10
4	407.5	14.7	509	2	US-09-031-392-6
5	407.5	14.7	509	4	US-09-299-549-6
6	404.5	14.6	494	2	US-09-031-392-5
7	404.5	14.6	494	4	US-09-299-549-5
8	394.5	14.3	524	2	US-08-928-692-12
9	389.5	14.1	534	2	US-09-031-392-4
10	389.5	14.1	534	4	US-09-299-549-4
11	364.5	13.2	492	2	US-08-355-844-3
12	364.5	13.2	492	5	PCT-US95-16126-3
13	349.5	12.6	500	2	US-09-031-392-7
14	349.5	12.6	500	4	US-09-299-549-7
15	331	12.0	488	2	US-08-928-692-10
16	331	11.2	383	2	US-09-031-392-3
17	311	11.2	383	4	US-09-299-549-3
18	284.5	10.3	563	2	US-09-031-392-2
19	284.5	10.3	563	4	US-09-299-549-2
20	268.5	9.7	488	2	US-08-928-692-11
21	225.5	8.2	555	3	US-08-501-572-3
22	225.5	8.2	555	3	US-09-040-444-3
23	198.5	7.2	553	3	US-08-501-572-2
24	198.5	7.2	553	3	US-09-040-444-2
25	188	6.8	556	3	US-08-501-572-1
26	188	6.8	556	3	US-09-040-444-1
27	144	5.2	537	2	US-08-647-397-2

28	140.5	5.1	423	2	US-08-494-907-14	Sequence 14, Appl
29	140.5	5.1	423	5	PCT-US96-10986-14	Sequence 14, Appl
30	136	4.9	553	3	US-09-020-956-113	Sequence 113, App
31	136	4.9	553	4	US-09-030-607-113	Sequence 113, App
32	132.5	4.8	528	2	US-08-403-852D-21	Sequence 21, Appl
33	132.5	4.8	528	3	US-08-510-646B-22	Sequence 22, Appl
34	132.5	4.8	528	4	US-08-677-049-8	Sequence 21, Appl
35	125.5	4.5	520	4	US-08-964-137-2	Sequence 8, Appl1
36	118	4.3	432	2	US-08-677-049-8	Sequence 8, Appl1
37	116.5	4.2	396	2	US-08-850-880-4	Sequence 4, Appl1
38	116.5	4.2	396	2	US-08-944-916-4	Sequence 4, Appl1
39	116.5	4.2	396	2	US-08-814-877-4	Sequence 4, Appl1
40	115	4.2	416	4	US-09-333-208-2	Sequence 2, Appl1
41	115	4.2	416	4	US-09-333-208-2	Sequence 2, Appl1
42	115	4.2	1093	3	US-08-545-860D-55	Sequence 55, Appl1
43	115	4.2	1093	5	PCT-US94-04496-55	Sequence 55, Appl1
44	114	4.1	4551	3	US-09-320-878-1	Sequence 1, Appl1
45	114	4.1	4613	4	US-09-105-537-31	Sequence 31, Appl1

ALIGNMENTS

RESULT 1  
US-08-928-692-13  
Sequence 13, Application US/08928692  
Patent No. 5958727  
GENERAL INFORMATION:  
APPLICANT: Brody, Howard  
APPLICANT: Yaver, Deborah S.  
APPLICANT: Lamsa, Michael  
APPLICANT: Hansen, Kim  
TITLE OF INVENTION: Methods for modifying the production of  
TITLE OF INVENTION: a Polypeptide  
NUMBER OF SEQUENCES: 80  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: No. 59587270 No. 5958727disk of No. 5958727th America, Inc.  
STREET: 405 Lexington Avenue  
CITY: New York  
STATE: NY  
COUNTRY: USA  
ZIP: 10174  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/928.692  
FILING DATE: 12-SEPT-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4944.200-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 584 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: No. 5958727e  
US-08-928-692-13  
Query Match 15.8% Score 438; DB 2: Length 584;  
Best Local Similarity 24.9%; Pred. No. 4.8e-31;  
Matches 136; Conservative 85; Mismatches 218; Indels 108; Gaps 12;  
4 SPPVPLKASVSLGLGLFGEYELAVISGALLPLQLDFGLSCL---FOEFLVGSLLGLALL 60

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Db 83 SPTLTL-TEVASISGFMGYDTGYISSALISIGTDLHKKVLYGKELVTAATSLGAI 141
Oy 61 ASLVGFLIDCYGRKQALIGSNVLLAGSLTGLAGSLMVLGRAVGFALSSMACC 120
Db 142 TSIFAGTADITGRKCLGSSNLMFYGALIVSAHTFQMAGVGRILMGFGVIGSLIAP 201
Oy 121 IYVSELVGRGRGVLSLYEAGITVGLISYALNVALACTPGWGRHMGEMATAPAVLSL 180
Db 202 LFISEIAPKIRGLIVINSMLTGQVLAVGCCAGLNVNNGMHLVGLSLIPIAVDPT 261
Oy 181 SLILP-----AGTDETAH-----KDLIPLOGEAPKLGPRP 214
Db 263 CICEFLPDPPIRYVMKGLARATEVLKRSYDTSEERIEKRYVELTNGISFGKNVPEKV 321
Oy 215 RYSLFLDIFRARDNMRGRTTVGLVLPQOLTGQPNVLCYASTIFSSVGFHGSSAVLASV 274
Db 322 WMTIELHVTBNSLRA-LIIGGLOAIQOFTGWSNLMFSGTIFETVGRK-NSSAV--SI 377
Oy 275 GLGAVKVAATLTAMGLVDRAGRALLAGC--ALMALSVSGIGLVSPVPMOSGSCLAY 332
Db 378 IVSGTNLFETLVAFPSIKIGRRTLLIGLPGMTMALVYCSIAHFHIGIKFD-GAVAVV 436
Oy 333 PNATGOTGLPGDSGLDSSLPPIPTKNEDEREPILSTAKTKPHRSGDPSAPPRALS 392
Db 437 SSGSSMGI----- 445
Oy 446 -----VILVFLVFAFVAGLIGTVPW-QOSELPQONKRGITSIAT 486
Db 453 SFMANANLFLISFLDITIGTGLSWTFLVGLTAVLGLGYLVPETKQSLAEIDQOF 512
Oy 487 ATNAGSLVIASTLTMLONTTPAGTFAFAGLSCLSTICYFCYPLSGHLEEV-QTI 545
Db 513 OKRRFTL 519
Oy 546 LKDGFINI 552

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## RESULT 2

```

US-09-031-392-10
; Sequence 10, Application US/09031392
; Patent No. 5942398
; GENERAL INFORMATION:
; APPLICANT: Tartaglia, Louis A.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES
; NUMBER OF INVENTION: ENCODING GLUTEX AND USES THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/031.392
; FILING DATE: 26-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Melkielejohn, Ph.D., Anita L.
; REGISTRATION NUMBER: 35,283
; REFERENCE/DOCKET NUMBER: 07334/072001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154

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; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 493 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-031-392-10

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Query Match 15.48; Score 427; DB 2; Length 493;

Best Local Similarity 25.98; Pred. No. 3.7e-30;

Matches 144; Conservative 80; Mismatches 184; Indels 148; Gaps 15;

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Oy 8 LPLCASVSLGLTFGYELAVISG-----ALLPLDLDGLSLEQ 47
Db 14 LVLAIVLALAGSPQYGNILGINAPKQVIAEFYETWLGKGEKPSVPTLLWSLSV--S 71
Oy 48 EFLVGSLLGALLASLVGFLIDCYGRKQALIGSNLVLLAGSLTGL--AGSLMVLIG 104
Db 72 IEAVGG-MISFVLGXIGNRL---GRKXAMLVNVLAIAGGLMGLAKKXASFEMILIG 126
Oy 105 RAIVGFALISLSMACCIYSELVGRGVLSLYEAGITVGLISYALNVALACTPMG 163
Db 127 RFTIIGLVCGLSSGVPMRYVEISPTALRGALGLTLDGIVIGILIAOVGLDLSLGNESI 186
Oy 164 WRHMEGNATAPAVLQSLSLFLPAG-----TDETAHKLDIRPLOG-----G 204
Db 187 WPLLGLTGVPAVLQILLLPFCESPREYLLINKNEARAKKALQIRGRADVSQEAEEK 246
Oy 205 EAPKLGPRPRYSFLDIFRARDNMRGRTTVGLVLPQOLTGQPNVLCYASTIFSSVGFH 264
Db 247 DESRKMSEXKXSVLELFNSR-XRQPVYIAIVLQSLGAINAFYSTISIFERAGV- 304
Oy 265 GGSAAVLASVGAIVKVAATLTAMGLVDRAGRALL-----ACGALMALSVSGIGLV 318
Db 305 --GQPVYATIGAGVNTVFVVSFVERAGRTLHLGLGMAAGAV-----LMT 353
Oy 319 FAVPMDSGSPCLAVPNATGOTGLPGDSGLDSSLPPIPTKNEDEREPILSTAKTKPH 378
Db 354 IA----- 355
Oy 379 RSGDSPAPPRALSSALPGPPLPARGHALLRMTALLCLMVFSAPSGPGPTWLVSEI 438
Db 356 -----LALDQVP-----WMSYSLVAILFGFAFEVGRPLPMTIVEL 395
Oy 439 YVEIRGRAPACNSFNMANLFLISFLDITIGTGLSWTFLVGLTAVLGLGYLVP 498
Db 396 FSQGRPAIAVAGFSNMTSNFVGLLFQYIAELLG-PYVFIVAVLLLPFIETFLKVP 454
Oy 499 ETKGSLAEIDQOFK 514
Db 455 ETKGRTPDEIAAFRK 470

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## RESULT 3

```

US-09-299-549-10
; Sequence 10, Application US/09299549
; Patent No. 6136547
; GENERAL INFORMATION:
; APPLICANT: Tartaglia, Louis A.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING
; NUMBER OF INVENTION: GLUTEX AND USES THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette

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COMPUTER: IBM Compatible  
 OPERATING SYSTEM: Windows95  
 SOFTWARE: FASTSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/299,549  
 FILING DATE: 26-APR-1999  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09/031,392  
 FILING DATE: 26-FEB-1998  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Melkielejohn, Ph.D., Anita L.  
 REGISTRATION NUMBER: 35,283  
 REFERENCE/DOCKET NUMBER: 07334/072002  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEFAX: 617/542-8906  
 TELEX: 200154  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 493 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-299-549-10

Query Match 15.4%; Score 427; DB 4; Length 493;  
 Best Local Similarity 25.9%; Pred. No. 3.7e-30;

Matches 144; Conservative 80; Mismatches 184; Indels 148; Gaps 15;

8 LPLCASVLLGLTFGEYELAVISG-----ALLPLQLDFGLSCLQ 47  
 14 LVLAVIALAGSFOYGNIGVINAPOKVI EAFETWLGKXGEXPVTLTLLMSLV--S 71  
 48 EPLVSGLLGALLASVGGFLIDCYGRKQAILGSNVLVLAGSLTGL---AGSLAVLVG 104  
 72 IFAVGG-MIGSFLVXGIGKRL---GRKXAMLVNNVLAVLAGSLGMLAKXASFEMLIIG 126  
 105 RAVVGFAISLSMACCTIVSELVGPRQGVLSLYEAGITVGLLSYALNY-ALACTPMG 163  
 127 RPIIGLGLTSGVVMYGEISPTLRGALGTLNQIGIVIGILIAQVIGLDSLQNESI 186  
 164 WRHMFQMATAPAVLOSLSLFLPAG-----TDETAHKKDLIPLOG-----G 204  
 187 WPLLGLGTVPALQLLLPFCPESPRYLLINKNEARAKKALQRLRGTAADVSEQEVAEMK 246  
 205 EAPKLCGPRPRYSFLDFRARDNMGRRTVGLVLPQOLTGOPNVLCTASTFSSVGRH 264  
 247 DESRKMKSERKXSVLELFRSR--XYROPVIAIVLQLSQSGINAVFYSTSIKERAGV- 304  
 265 GGSNAVLSVGGAVKVAATLTAMGLVDRAGRALL-----AGCALMALSVSGIGLV 318  
 305 --GQPAYATIGAGVNTVTVSVFVERAGRTLHLGLGACAV-----LMT 353  
 319 FAVPMDSGPSCLAVPNATGOTGLPGDSGLDQSSLPPIPTNEDOREPIILSTAKTKPRP 378  
 354 IA----- 355  
 379 RSGDPSAPPRLALSSALPGPPLPARGHALLKRTALLCLMVFVSASFSGPGPTWLVLS 438  
 356 -----LALLDQVP-----NMYSYIVAIGFVAFPEVCGPIPMFIVALE 395  
 439 YPELIGRAPAFCONSPNMANLFLISLFDLICTIGLSMTPFLVGLTAVLGIGFITYLFP 498  
 396 FSGGPPPAIAVAGFSNMNLSNFIIVGLLFOYIAELLG-PYVETVFAVALLPLFLFTLVK 454  
 499 ETKGSLAEIDQFQK 514  
 455 EFKGRTFDEIAAARF 470

RESULT 4  
 US-09-031-392-6

Sequence 6, Application US/09031392  
 Patent No. 5942398  
 GENERAL INFORMATION:  
 APPLICANT: Tartaglia, Louis A.  
 APPLICANT: Meng, Xun  
 TITLE OF INVENTION: NUCLEIC ACID MOLECULES  
 NUMBER OF INVENTIONS: 10  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Fish & Richardson P.C.  
 STREET: 225 Franklin Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02110-2804  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: Windows95  
 SOFTWARE: FASTSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/031,392  
 FILING DATE: 26-FEB-1998  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Melkielejohn, Ph.D., Anita L.  
 REGISTRATION NUMBER: 35,283  
 REFERENCE/DOCKET NUMBER: 07334/072001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEFAX: 617/542-8906  
 TELEX: 200154  
 INFORMATION FOR SEQ ID NO: 6:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 509 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-031-392-6

Query Match 14.7%; Score 407.5; DB 2; Length 509;  
 Best Local Similarity 25.5%; Pred. No. 2.1e-28;

Matches 143; Conservative 81; Mismatches 196; Indels 141; Gaps 15;

5 PP-----VLPICASVLLGLTFGEYELAVISGALLPLQLDFGLSCLQD----- 48  
 15 PQQRVTGLTVLAVFAVAGLSLQFGINIGVINAPOKVI EDSYNETWLGKXGEXPVTLTLLMSLV--S 74  
 49 -----FLVSGLLGALLASVGGFLIDCYGRKQAILGSNVLVLAGSLTGLAGSLA- 99  
 75 GTLTLMALSVAFSGVGMISFLIGIISQWLGKRAMLVNNVLAVLAGSLGMLAKXASFEMLIIG 134  
 100 --WLVIGRAVGFALISLMACCTIVSELVGPRQGVLSLYEAGITVGLLSYALNY-A 156  
 135 YEMLLIGRFLIGAVSGLTSLGVPVYGEIAPTLRGALGTLNQIGIVIGILIAQVIGLDS 194  
 157 LAGTPMGWRHMFQMATAPAVLOSLSLFLPAGTD-----ETATNHKKDLIPLOG----- 203  
 195 LUGTASLMLPLLLGLTVLPALDQVLLPFCPESPRYLLINKNEARAKKALQRLRGTAADVSEQEVAEMK 254  
 204 -----GAPKLGPRPRYSFLDFRARDNMGRRTVGLVLPQOLTGOPNVLCTASTFSSVGRH 264  
 255 GVLAEKDEKREKREPR-LSLQGLGSRTH--RPLIIVAVLQLSQSGINAVFYSTSIKERAGV- 312  
 257 IESSVGFHGGSSAVLASVGGAVKVAATLTAMGLVDRAGRALLLGLGACAV-----LMT 353  
 313 IETAGV--GQPAYATIGAGVNTVTVSVFVERAGRTLHLGLG-----GM 360  
 317 VSFVPMDSGPSCLAVPNATGOTGLPGDSGLDQSSLPPIPTNEDOREPIILSTAKTKPRP 376  
 361 CGCAILMTVALLL-----ERVAMS----- 381  
 377 HPSGDPSPAPPRLALSSALPGPPLPARGHALLKRTALLCLMVFVSASFSGPGPTWLVLS 436

Db 382 -----YVSIAIFGVAFEEIGPGPIPWFIYA 408  
 QY 437 EIVPEIRGRAPAFCSFNMANLFLISFLDLIGTIGLWTFLLYGLTAVLGLGFI--- 493  
 Db 409 ELFSQGRPRPAAVAGFSNMTSNFTIGMGFOYVAEAMG-PYVFLLP---AVLLGFFIFT 464  
 QY 494 YLVPETKQSLAETIDQFOR 514  
 Db 465 FLRVETRGRTFDQISAFHR 485

## RESULT 5

US-09-299-549-6  
 ; Sequence 6, Application US/09299549  
 ; Patent No. 6136547  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tartaglia, Louis A.  
 ; APPLICANT: Meng, Xun  
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING  
 ; TITLE OF INVENTION: GLUTEX AND USES THEREOF  
 ; NUMBER OF SEQUENCES: 10  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Fish & Richardson P.C.  
 ; STREET: 225 Franklin Street  
 ; CITY: Boston  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02110-2804  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: Windows95  
 ; SOFTWARE: FASTSEQ for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/299,549  
 ; FILING DATE: 26-APR-1999  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 09/031,392  
 ; FILING DATE: 26-FEB-1998  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Melkielejohn, Ph.D., Anita L.  
 ; REGISTRATION NUMBER: 35,283  
 ; REFERENCE/DOCKET NUMBER: 07334/072002  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 617/542-5070  
 ; TELEFAX: 617/542-8906  
 ; TELEX: 200154  
 ; INFORMATION FOR SEQ ID NO: 6:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 509 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-299-549-6

Query Match 14.7%; Score 407.5; DB 4; Length 509;  
 Best Local Similarity 25.5%; Pred. No. 2.1e-28;  
 Matches 143; Conservative 81; Mismatches 196; Indels 141; Gaps 15;

QY 5 P-----VPLCASVSLGILTFGEYLAIVISGALLPQDLDRGLSCLEOE----- 48  
 Db 15 PQOQRTVGLTVLAVFSAVLSIGFQFYNIGVINAPKVIQSYNETWLGROGPEGPSIPP 74  
 QY 49 -----FLVSLIGLALLASLVGFLIDCYGRKQALIGSNLVLLAGSLTIGLAGSLA- 99  
 Db 75 GLTTLMLASVAIFSVGMISSFLIGITISOMLGRKRAVLVNNVLAIVAGSLMGLANAAAS 134  
 QY 100 --WLVLGRAVVGFAISLSSMACCIYVSELVPRORGVLSLYEAGITVGILSLYALNY-A 156  
 Db 135 YEMLITGRFLIGAVSGLTSLGVPMTVGEIAPLTHLGAIGTLNOLAIVIGILIAQVGLLES 194

QY 157 LAGTPMGWRHMGWATAPAVIQSLSLFLPACTD-----ETATHKDLIPLOS----- 203  
 Db 195 LGGTASLMPILGLITVLPALLQVLLPFCPESPRILYIIQNLBGRARSLRLTGMADVS 254  
 QY 204 -----GEAPKIGGRPRYSFLDLFRARDNMKRTTGTGLVLPQOITGQPNVLCYAST 256  
 Db 255 GVIALKDKRKLREKRP-LSLQLLSRTH-ROPLIYAVLIQLSQOLSGINAVFYSTS 312  
 QY 257 TSSVGFHGGSSAVLASVGLAVKVAATLTAMGIVDRAGRALLACALMALSVSGIGL 316  
 Db 313 IFEIAGV---GQPAYATIGAGVMTVFTLVSVLLVERAGRTLLHGLA-----GM 360  
 QY 317 VSFAPMDSPSCGLAVPVATGOTGLPGSSGLDQSSLPPIPRNEDQREPILSAKTKTP 376  
 Db 361 CGCATLMTVALLL-----ERVPAWS----- 381  
 QY 377 HPRGDSAPPRALLSALGPPLPARGHALLRWTALLCLMVFSASFPGFVTMLVYS 436  
 Db 382 -----YVSIAIFGVAFEEIGPGPIPWFIYA 408  
 QY 437 EIVPEIRGRAPAFCSFNMANLFLISFLDLIGTIGLWTFLLYGLTAVLGLGFI--- 493  
 Db 409 ELFSQGRPRPAAVAGFSNMTSNFTIGMGFOYVAEAMG-PYVFLLP---AVLLGFFIFT 464  
 QY 494 YLVPETKQSLAETIDQFOR 514  
 Db 465 FLRVETRGRTFDQISAFHR 485

## RESULT 6

US-09-031-392-5  
 ; Sequence 5, Application US/09031392  
 ; Patent No. 5942398  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tartaglia, Louis A.  
 ; APPLICANT: Meng, Xun  
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES  
 ; TITLE OF INVENTION: ENCODING GLUTEX AND USES THEREOF  
 ; NUMBER OF SEQUENCES: 10  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Fish & Richardson P.C.  
 ; STREET: 225 Franklin Street  
 ; CITY: Boston  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02110-2804  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: Windows95  
 ; SOFTWARE: FASTSEQ for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/031,392  
 ; FILING DATE: 26-FEB-1998  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Melkielejohn, Ph.D., Anita L.  
 ; REGISTRATION NUMBER: 35,283  
 ; REFERENCE/DOCKET NUMBER: 07334/072001  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 617/542-5070  
 ; TELEFAX: 617/542-8906  
 ; TELEX: 200154  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 494 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-031-392-5

Query Match 14.6%; Score 404.5; DB 2; Length 494;  
 Best Local Similarity 23.9%; Pred. No. 3.8e-28;

Matches 134; Conservative 98; Mismatches 187; Indels 141; Gaps 17;

```

OY 1 MCHSPVPLPLCASVSL--LGILTFGEYELAVISGALLPLQDPLGSLCDEQ--EFLVGSLL 56
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 1 MOTTAVTTPPLPAISLATIGSFQFGYNTGVINAPAIIR--DFLNTLTLEERSTPPSVLL 59
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 57 -----GALLASLVGGLIDCYGRKQAILGSLNVLVLAGSLTG--LAGSLAW 100
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 60 TSLMSLSVAIFSVGCMISFSVGLFVNFRGRNSMLIVNLLAIAGCGLMGCKIAESYEM 119
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 101 LVLAGVAVGFAISLSMCCIYSELVGRGVLSLEYAGITVIGILSYALNT--ALAG 159
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 120 LILGRLIIGLFCGLCTGVPMYIGETSPALRGAGCTLNQDITVIGILVAQIFGLKVLIG 179
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 160 TPGMRHMGATAPAVLOSLSLFLPA-----GTDETATHK 196
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 160 TEDLMPPLLGFTILPAITOCALPFCSPRFLINRKEEAKELIQRIMKTEDEVA--Q 237
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 197 DLPLQGGAPRLGPRPRYSFLDLFRARDNNRGTTVGLVLFQOLTGQPNVLCYAST 256
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 238 DIOEMK--DESMMSQEK--QVTVLELFRA--PNYROP11ISIMQLSQOLSGINAVFYSTG 294
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 257 IFSSVGFHGGSSAVLASVGLAVKVAATLTAMGLVDRAGRRLLAGCALMALSVSGIGL 316
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 295 IFKQAGV---QEPVYATIGAGVNTITFVSVFLVERAGRRLHLIG-----LGGMNF 344
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 317 VSFAPMDSGPCLAVPNATGOTGLPGDSGLQDSSLPPIPTNEDQREPISTAKTKRP 376
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 345 CSILMTI-----SLTKDN----- 358
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 377 HPRSGDPSAPRLALSSALPGPPLPARGHALLRMTALLC--LMVFSASFSGFPVTWL 433
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 359 -----YSMMSFICIGAILVFVAFEEIGPPIPMF 387
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 434 VLSEIYPIEIRGRARAFCSFPMANLPLISFLDLIGTIGLSMTFLYGLTAVLGLGTI 493
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 388 IYAEILFGGPRPAAAVACSNMTSNFLVGLLFPSPATFLG--AYVFIYFVLVIFWFT 446
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 494 YLVEPETKGSIAEIDQOFO 513
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 447 FFKVPETRGRTPEETRAFE 466
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

# RESULT 7

US-09-299-549-5

Sequence 5, Application US/09299549

Patent No. 6136547

GENERAL INFORMATION:

APPLICANT: Tartaglia, Louis A.

APPLICANT: Meng, Xun

TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING

TITLE OF INVENTION: GLUTEX AND USES THEREOF

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: PASCSEO for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/299,549

FILING DATE: 26-APR-1999

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/031,392

FILING DATE: 26-FEB-1998

ATTORNEY/AGENT INFORMATION:

NAME: Melkio John, Ph.D., Anita L.

REGISTRATION NUMBER: 35,283

REFERENCE/DOCKET NUMBER: 07334/072002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/542-5070

TELEFAX: 617/542-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 494 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-299-549-5

Query Match 14.6%; Score 404.5; DB 4; Length 494;

Best Local Similarity 23.9%; Pred. No. 3.8e-28;

Matches 134; Conservative 98; Mismatches 187; Indels 141; Gaps 17;

```

OY 1 MCHSPVPLPLCASVSL--LGILTFGEYELAVISGALLPLQDPLGSLCDEQ--EFLVGSLL 56
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 1 MOTTAVTTPPLPAISLATIGSFQFGYNTGVINAPAIIR--DFLNTLTLEERSTPPSVLL 59
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 57 -----GALLASLVGGLIDCYGRKQAILGSLNVLVLAGSLTG--LAGSLAW 100
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 60 TSLMSLSVAIFSVGCMISFSVGLFVNFRGRNSMLIVNLLAIAGCGLMGCKIAESYEM 119
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 101 LVLAGVAVGFAISLSMCCIYSELVGRGVLSLEYAGITVIGILSYALNT--ALAG 159
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 120 LILGRLIIGLFCGLCTGVPMYIGETSPALRGAGCTLNQDITVIGILVAQIFGLKVLIG 179
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 160 TPGMRHMGATAPAVLOSLSLFLPA-----GTDETATHK 196
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 160 TEDLMPPLLGFTILPAITOCALPFCSPRFLINRKEEAKELIQRIMKTEDEVA--Q 237
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 197 DLPLQGGAPRLGPRPRYSFLDLFRARDNNRGTTVGLVLFQOLTGQPNVLCYAST 256
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 238 DIOEMK--DESMMSQEK--QVTVLELFRA--PNYROP11ISIMQLSQOLSGINAVFYSTG 294
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 257 IFSSVGFHGGSSAVLASVGLAVKVAATLTAMGLVDRAGRRLLAGCALMALSVSGIGL 316
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 295 IFKQAGV---QEPVYATIGAGVNTITFVSVFLVERAGRRLHLIG-----LGGMNF 344
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 317 VSFAPMDSGPCLAVPNATGOTGLPGDSGLQDSSLPPIPTNEDQREPISTAKTKRP 376
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 345 CSILMTI-----SLTKDN----- 358
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 377 HPRSGDPSAPRLALSSALPGPPLPARGHALLRMTALLC--LMVFSASFSGFPVTWL 433
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 359 -----YSMMSFICIGAILVFVAFEEIGPPIPMF 387
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 434 VLSEIYPIEIRGRARAFCSFPMANLPLISFLDLIGTIGLSMTFLYGLTAVLGLGTI 493
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 388 IYAEILFGGPRPAAAVACSNMTSNFLVGLLFPSPATFLG--AYVFIYFVLVIFWFT 446
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 494 YLVEPETKGSIAEIDQOFO 513
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 447 FFKVPETRGRTPEETRAFE 466
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

# RESULT 8

US-08-928-692-12

Sequence 12, Application US/08928692

Patent No. 5958727

GENERAL INFORMATION:

APPLICANT: Brody, Howard

APPLICANT: Yaver, Deborah S.

APPLICANT: Lamsa, Michael

APPLICANT: Hansen, Kim

TITLE OF INVENTION: Methods for Modifying the Production of

TITLE OF INVENTION: a Polypeptide

NUMBER OF SEQUENCES: 80

CORRESPONDENCE ADDRESS:

ADDRESSEE: No. 59587270 No. 5958727 disk of No. 5958727th America, Inc.  
 STREET: 405 Lexington Avenue  
 CITY: New York  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10174  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/928,692  
 FILING DATE: 12-SEPT-1997  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lambiris, Elias J  
 REGISTRATION NUMBER: 33,728  
 REFERENCE/DOCKET NUMBER: 4944,200-US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-878-9655  
 TELEFAX: 212-867-0123  
 INFORMATION FOR SEQ ID NO: 12:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 524 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: No. 5958727e  
 US-08-928-692-12

Query Match 14.38; Score 394.5; DB 2; Length 524;  
 Best Local Similarity 23.68; Pred. No. 3.3e-27;  
 Matches 138; Conservative 83; Mismatches 182; Indels 181; Gaps 16;

15 SLGGTLTGCEYLAIVSGA-----LLEPLQD-----FELS 43  
 17 AVLSFGQYDGVINAPQVLIISHYRVILGVPDLDKRAINNYINSTDELPTISYMN 76  
 44 -----CLEQEF-----VGSLLGALLASLVGGLIDCYGRKQAILGSNLVLT 86  
 77 KPTWAEETVYAAQOLITMMLSLSVSSFAVGCMATSPFGMLDITGLRIKAMLVANITSL 136  
 87 AGSLITG---LAGSLANLVLRVAVGFAISLSMACCIYSELVGRPRORVLSYEAGI 143  
 137 VGLLMGFSLKSPSHIILINGRSISGLYCGILGIVPMITGETAPALRGALGTFHQLAI 196  
 144 TVGLISLYAL-----NYLACTPWGWRHMFGMATAPAVLOSLSLFLPAG----- 188  
 197 VTGLISQIIGLEFLIGNVDL-----WHLLGLSGVRAIIQSLLLFCPESPRYLYIKL 250  
 189 TDEATYHKDLIPLOG-----GEAPKLGGRPRYSFLDLPFRANMNGRTTVIG 237  
 251 DEEVAKKQSLKRLRGYDQDTKQINEMKREERASSQKVSIIQLF-TNSSQPLILVAM 309  
 238 LVLPQOLGQPNVLYASTIFSSVGFHGGSSAVLASVGLAVKAVATLFRAMGLVDRAGR 297  
 310 LHAQDFSGINGIFYYSTISFOTAGI---SKPYVATIGVANNMFTAVSVFLVGRKR 366  
 298 ALLTAG-----CALMALSVSGIGLVSPFVAVPDGSPCLAVPNAGTGGLPGDGLLQDS 351  
 367 SLPLIGMSMFYCAIF---MSVGLV-----LNKRF 393  
 352 SLPLIPRTNEDOREPILSTAKTKRPHRSGDPSAPRILALSALPGPLPARGHALLRWT 411  
 394 S-----WMSYV 399  
 412 ALLCLMVSASFSGCVTVLVLSEIYVPEIRGRFAFCNSFMNANLFLISFLDIG 471  
 400 SNTAFLFLVFSFEIGPDPIMFVMAEFSGGRPALALIAAFSWTNCFIYALFCYTIAD 459  
 472 TIGLSWTFLLGLTAVLGLGFIYLFVPEPTKQSLAEIDDOFQKR 515

DB 460 FCGPYVFFLAGVLLAFTL-FFFPKVPETKSGKSPFEIARFQKR 502

RESULT 9  
 US-09-031-392-4

Sequence 4, Application US/09031392  
 Patent No. 5942398

GENERAL INFORMATION:

Applicant: Tartaglia, Louis A.

Applicant: Meng, Xun

TITLE OF INVENTION: NUCLEIC ACID MOLECULES

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/031,392

FILING DATE: 26-FEB-1998

ATTORNEY/AGENT INFORMATION:

NAME: Melkielejohn, Ph.D., Anita L.

REGISTRATION NUMBER: 35,283

REFERENCE/DOCKET NUMBER: 07334/072001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/542-5070

TELEFAX: 617/542-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 534 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-031-392-4

Query Match 14.18; Score 389.5; DB 2; Length 534;  
 Best Local Similarity 24.38; Pred. No. 9.4e-27;  
 Matches 146; Conservative 78; Mismatches 194; Indels 183; Gaps 16;

3 HSPVLPPLCASVSLGGITFGYELAVIS-----LQDFGLSCLEQELVSLGLGALLAS 30  
 12 HLTGLIVSVTVAVLGFQYGSIGVINAPQVLEAHYGRMLGAIPIVVRHATMTSRDNAT 71  
 31 -----GALLP-----LQDFGLSCLEQELVSLGLGALLAS 62  
 72 ITVTIPGEAMSGSEGLAPSGAGFEDPTVPSHILTMWSLS-----VSMFVAGMWS 124  
 63 LVGFEFLIDCYGRKQAILGSNLVLAGSLTGLA---GSLAMLVLRVAVGFAISLSMAC 119  
 125 FTVGMIDGRIGRVKAMLVVNLSTAGNMLMGKMGPSHILLIAGRAITGLYGGSSGLV 184  
 120 CIVVSELVGRORGVLSIYEAGITVGIILSTYALNT-ALAGTPWGRHMFGMATAPAVLO 178  
 185 PMYSEVSPALAGALGTLQALIVGILISQVLGIDFLGNDLPLLLIGLSGVAAIQ 244  
 179 SLSLFLP-----AGTDEYATYHKDLIPLOGGRAP-----KLGPRGRYSF 218  
 245 FFLILLCPESPRLYIKLQVEEA-KSLKRLRGNDPRAKETAEMKEKQDASEKRSVI 303  
 219 LDLEFRARDNMNGRTTYGIGLVLPQOLGQPNVLYASTIFSSVGFHGGSSAVLASVGLA 278  
 304 GOLP-SSSKRYROAVIVALLVVOISQDFSGINAIFFYYSTNIFGRAGV--GQPVYATIGV 360

QY 279 VAVATLTAMGLVDRAGRALLACCALMALSVSGIGLVFAVPMDSGSCLAVPNATGQ 338  
 DB 361 VAVTFTVISVFLVERKAGRSLEFLAG--LMGMLIS-----AVAMTVG----- 399  
 QY 339 TGLPDSGLDQSSLPPIPTNEDOREPILSTAKTKKPHRSGDPSAPRLALSSALPCP 398  
 DB 400 -----LVLLSQF--- 406  
 QY 399 PLPANGHALLRTALLCLMVFVSAFSGPGVPTWMLVLSITYVEIIRGAFACNSFNMA 458  
 DB 407 -----AMMSVSMVAIFLFVIFEEVCGPIPMFIVAEILFSQGRPAIAVAGFCNNAC 459  
 QY 459 NLFISLSF---LDLIGTIGLSWTFLLYGLTAVLGLGFTLYLPVETKGSIAEIDQFOKR 515  
 DB 460 NFIYGMCFQYIADLCG---PYVFAVAVLLVFLFAVLKVPETKGSFEEIATAAFRRK 515  
 QY 516 R 516  
 DB 516 K 516

RESULT 10  
 US-09-299-549-4  
 : Sequence 4, Application US/09299549  
 : Patent No. 6136547  
 : GENERAL INFORMATION:  
 : APPLICANT: Taregilla, Louis A.  
 : APPLICANT: Meng, Xun  
 : TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING  
 : TITLE OF INVENTION: GLUTEX AND USES THEREOF  
 : NUMBER OF SEQUENCES: 10  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Fish & Richardson P.C.  
 : STREET: 225 Franklin street  
 : CITY: Boston  
 : STATE: MA  
 : COUNTRY: USA  
 : ZIP: 02110-2804  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Diskette  
 : COMPUTER: IBM Compatible  
 : OPERATING SYSTEM: Windows95  
 : SOFTWARE: FastSeq for Windows Version 2.0  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/09/299,549  
 : FILING DATE: 26-Apr-1999  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 09/031,392  
 : FILING DATE: 26-FEB-1998  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Melkielejohn, Ph.D., Anita L.  
 : REGISTRATION NUMBER: 35,283  
 : REFERENCE/DOCKET NUMBER: 07334/072002  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: 617/542-5070  
 : TELEFAX: 617/542-8906  
 : TELEX: 200154  
 : INFORMATION FOR SEQ ID NO: 4:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 534 amino acids  
 : TYPE: amino acid  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: protein  
 : US-09-299-549-4

Query Match 14.1% Score 389.5; DB 4; Length 534;  
 Best Local Similarity 24.3% Pred. No. 9,4e-27;  
 Matches 146; Conservative 78; Mismatches 194; Indels 183; Gaps 16;  
 QY 3 HSPPVLPICASVSLGGLTFEGELAVIS----- 30

DB 12 HLTGTLVSVFTAVLGFQFOYGYSLGVINAPKVITAHYGRMLGAIIPMVRHATNTSRDNT 71  
 QY 31 -----GALLP-----LDLDFGLSCEDEPVLGSLGALLAS 62  
 DB 72 ITVTIPTGEAMSSSEGTIAPSAFEDPTVSPHILMYNLS-----VSMRAVGGMVS 124  
 QY 63 LVGFLIDCYGRKQAILGSNVLVLAGSLTLGLA---GSLAMVLCRAVYVGFISISSMAC 119  
 DB 125 FTVGWIIGDRIGKAVKAMLVVNYLSIAGNLMGLAKKPSHILIIAGRAITGLCGSSGLV 184  
 QY 120 CIYVEIENPGRRGVLYSLYEAGITVGLISLALMY-ALAGTPMKMRHMFQATAPVILQ 178  
 DB 185 PNYVEESPITALGALGTIHOIAIVTGILISQVLDLDELMPILLLGVAALLQ 244  
 QY 179 SLSLFLP-----AGTDETAHKDILIPLOGEAP-----KLQGRPRYSF 218  
 DB 245 FFLLLLCPESPRYLYIKLQKVEEA-KSLKRLRGKCDPMKEIAEMEKQEAASEKRSI 303  
 QY 219 LDLPARDNMGRRTVGLGLVLEFQQLTGOPNVLCYASTIFSSVFRGSSAVLASVGLCA 278  
 DB 304 GQLF-SSSKYRQAVIYALMVQISQOFGSINALFYSTNIFQRAV--GOPYVYATIGVGV 360  
 QY 279 VAVATLTAMGLVDRAGRALLACCALMALSVSGIGLVFAVPMDSGSCLAVPNATGQ 338  
 DB 361 VAVTFTVISVFLVERKAGRSLEFLAG--LMGMLIS-----AVAMTVG----- 399  
 QY 339 TGLPDSGLDQSSLPPIPTNEDOREPILSTAKTKKPHRSGDPSAPRLALSSALPCP 398  
 DB 400 -----LVLLSQF--- 406  
 QY 399 PLPANGHALLRTALLCLMVFVSAFSGPGVPTWMLVLSITYVEIIRGAFACNSFNMA 458  
 DB 407 -----AMMSVSMVAIFLFVIFEEVCGPIPMFIVAEILFSQGRPAIAVAGFCNNAC 459  
 QY 459 NLFISLSF---LDLIGTIGLSWTFLLYGLTAVLGLGFTLYLPVETKGSIAEIDQFOKR 515  
 DB 460 NFIYGMCFQYIADLCG---PYVFAVAVLLVFLFAVLKVPETKGSFEEIATAAFRRK 515  
 QY 516 R 516  
 DB 516 K 516

RESULT 11  
 US-08-355-844-3  
 : Sequence 3, Application US/08355844  
 : Patent No. 5940307  
 : GENERAL INFORMATION:  
 : APPLICANT: Fischbarg, Jorge  
 : APPLICANT: Czegledy, Ferenc  
 : APPLICANT: Iszerovich, Pavel  
 : APPLICANT: Li, Jun  
 : TITLE OF INVENTION: A METHOD FOR PREDICTING PROTEIN  
 : TITLE OF INVENTION: STRUCTURE  
 : NUMBER OF SEQUENCES: 3  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Brumbaugh, Graves, Donohue & Raymond  
 : STREET: 30 Rockefeller Plaza  
 : CITY: New York  
 : STATE: NY  
 : COUNTRY: USA  
 : ZIP: 10112-0228  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: PatentIn Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/355,844  
 : FILING DATE: 14-DEC-1994  
 : CLASSIFICATION: 436  
 : ATTORNEY/AGENT INFORMATION:

NAME: Tang, Henry Y.S.  
 REGISTRATION NUMBER: 29,705  
 REFERENCE/DOCKET NUMBER: A29927-50/29910  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-408-2586  
 TELEFAX: 212-765-2519  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 492 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 ORIGINAL SOURCE:  
 ORGANISM: Human  
 FEATURE:  
 NAME/KEY: Peptide  
 LOCATION: 1..492  
 OTHER INFORMATION: Facilitative glucose transporter  
 OTHER INFORMATION: Glut1 protein  
 US-08-355-844-3

Query Match 13.2% Score 364.5; DB 2; Length 492;  
 Best Local Similarity 24.6% Pred. No. 1.4e-24;  
 Matches 136; Conservative 82; Mismatches 194; Indels 141; Gaps 16;

QY 8 LPLCASVSLGSLFGYELAVISG-----ALLPQLD--FGSLGLE 46  
 DB 12 LMLAVGAVLGSIGFGYNTGVINAPQKVIIEFYNOTWHRGEGSLPTTLTTLTSL-- 68  
 QY 47 OEFLVGSLLGALLASLVGFLIDCYGRKQALISNLVLLAGSLTLG---LAGSLAMVL 103  
 DB 69 ----VAISVGMISSGSESVGLFVNFRGRNSMLMMLAFVSAYLMSFKLSKSPFEMIL 124  
 QY 104 GRAVGFALISLSSMACCIYSELVGRGRLVSLYEAGITVGLISALNV--ALAGTPW 162  
 DB 125 GFFITGVYCGLTGTFVPMYGEVSPTRAGLGLTLHQLGIVGGLIAOVFGIDSIMGND 184  
 QY 163 GWRHMFGMATPAVLOSLSLFLPAG-----TDETAHKDLIPLOG----- 203  
 DB 185 LMPLLLSITIFPALQCIVIPCEPSRFLINRNEENRAKSVLKIRGADVTHTDLEM 244  
 QY 204 GEAPRLGPRPRYSFLDLFRARDNMGRTTVGLVLFQOLGQPNVLCASITFSSVGF 263  
 DB 245 KEESROMMREKVTILELFRS--PAYRQPIIAVVLQSLQSGINAVYSTSIFEKAGV 303  
 QY 264 HGSSAVLASVGCAGVAVATLTMGLVDNRARRALLACALMALSVSGIGLVFAVPW 323  
 DB 304 ---QPPYATIGSIGVMTAVTAVSLFVERAGRRLHLGLAGMA----- 345  
 QY 324 DSGFSLAVPNATGOTGLPGDGLDQSSLPPIPTINDEOREPILSTAKTRPHRSGDP 383  
 DB 346 -----GQA-----ILMTI----- 353  
 QY 384 SAPPRLASLALPGPPPARGHALLMWTALLCMVFSAFSGFGVTLVLSIYPAEI 443  
 DB 354 ----ATALLLEQLP-----WMSYLSIVAFGEVAFEEVGPPIPMFIVALESDGP 399  
 QY 444 RGRAFAFCSNFMAANLFLSLFLDLIGTIGISMTFLYGLTAVGLGFT--YLFVPEPK 501  
 DB 400 RPAALIVAGSMTSNFTIGMCFQYVEQLCG--PYVFLIF--TVLLVLFIRYFRVPEPK 456  
 QY 502 GOSLAIIDQFOK 514  
 DB 457 GRTEIASGFRQ 469

RESULT 12  
 PCT-US95-16126-3  
 Sequence 3, Application PC/TUS9516126  
 GENERAL INFORMATION:  
 APPLICANT: Fischberg, Jorge

APPLICANT: Czegledy, Ferenc  
 APPLICANT: Iserovich, Pavel  
 APPLICANT: Li, Jun  
 APPLICANT: Cheung, Min  
 TITLE OF INVENTION: A METHOD FOR PREDICTING PROTEIN  
 TITLE OF INVENTION: STRUCTURE  
 NUMBER OF SEQUENCES: 3  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Brumbaugh, Graves, Donohue & Raymond  
 STREET: 30 Rockefeller Plaza  
 CITY: New York  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10112-0228  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/16126  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/355,844  
 FILING DATE: 14-DEC-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Tang, Henry Y.S.  
 REGISTRATION NUMBER: 29,705  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-408-2586  
 TELEFAX: 212-765-2519  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 492 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 ORIGINAL SOURCE:  
 ORGANISM: Human  
 FEATURE:  
 NAME/KEY: Peptide  
 LOCATION: 1..492  
 OTHER INFORMATION: Facilitative glucose transporter  
 OTHER INFORMATION: Glut1 protein  
 PCT-US95-16126-3

Query Match 13.2% Score 364.5; DB 5; Length 492;  
 Best Local Similarity 24.6% Pred. No. 1.4e-24;  
 Matches 136; Conservative 82; Mismatches 194; Indels 141; Gaps 16;

QY 8 LPLCASVSLGSLFGYELAVISG-----ALLPQLD--FGSLGLE 46  
 DB 12 LMLAVGAVLGSIGFGYNTGVINAPQKVIIEFYNOTWHRGEGSLPTTLTTLTSL-- 68  
 QY 47 OEFLVGSLLGALLASLVGFLIDCYGRKQALISNLVLLAGSLTLG---LAGSLAMVL 103  
 DB 69 ----VAISVGMISSGSESVGLFVNFRGRNSMLMMLAFVSAYLMSFKLSKSPFEMIL 124  
 QY 104 GRAVGFALISLSSMACCIYSELVGRGRLVSLYEAGITVGLISALNV--ALAGTPW 162  
 DB 125 GFFITGVYCGLTGTFVPMYGEVSPTRAGLGLTLHQLGIVGGLIAOVFGIDSIMGND 184  
 QY 163 GWRHMFGMATPAVLOSLSLFLPAG-----TDETAHKDLIPLOG----- 203  
 DB 185 LMPLLLSITIFPALQCIVIPCEPSRFLINRNEENRAKSVLKIRGADVTHTDLEM 244  
 QY 204 GEAPRLGPRPRYSFLDLFRARDNMGRTTVGLVLFQOLGQPNVLCASITFSSVGF 263  
 DB 245 KEESROMMREKVTILELFRS--PAYRQPIIAVVLQSLQSGINAVYSTSIFEKAGV 303





SEQUENCE CHARACTERISTICS:  
 LENGTH: 500 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-299-549-7

Query Match 12.6%; Score 349.5; DB 4; Length 500;  
 Best Local Similarity 25.0%; Pred. No. 3.2e-23;  
 Matches 137; Conservative 85; Mismatches 199; Indels 127; Gaps 17;

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QY 7 VLPICASVSLIG-GLTFGEYELAVI-SCALLPLQLD-----DEGLSCLEQEL 50
DB 16 VIALATLIAFGSSFOYGVNVAVNSPALMQFNEYETGRTGEMEDFPITLL-WSVT 74
QY 51 VGSLLGALLASLVGFLIDCYGRKQALLGSNLVLAGSLTLG---LACSLAMLYGRAV 107
DB 75 VSMFPFGGRTGLVLPPLVKNKGRKALLFNIFSVIPAILMGCSKRVATSPFELIISRL 134
QY 108 VGEAISLSMACCIYSELVGRGCVLSLEYAGITVGLS--YALNVALAGTPGWR 165
DB 135 VGIACGVSSNVPMYLGELAPKNLGALGVPLQITVGLVAQIFGLKMLAND-GRP 193
QY 166 HMFGNATAPAVLOSLSLELPAG-----TDETAHKLPLLOGEAPKLGPRPR- 215
DB 194 ILGLTGVPAALQLLLPFPESPRLYLLOKKDEAAKALKOTLGMDSVDREVAEIOE 253
QY 216 -----YSFLDFRADNMGRRTVGLVLPQOLGCPNVLCYASTFSSVGRHG 266
DB 254 DEERAAGRTIVLKLFRMR-SLRMQLLSIYLMGGQOLSGVNAIYYADQITLAVG-PE 311
QY 267 SSVALSVGLGAVKAAATLTMGLVDRAGRALLIAGCALMALSVSGIVSFAVPMDSG 326
DB 312 EHVQVYVAGTGAVNVMTFCVAFVVELLGRRLLLGFSICLI----- 354
QY 327 PSCIAVPNATGQTGLPGDSGLDSSLPPIRTNEDQREPIILSTAKTKTPHNSGDSAP 386
DB 355 -ACC-----VLTA----- 362
QY 387 PRILSSALPRLPARGHALLRMTALLCLMVEVSAFSGFGPMTVLSEIYVPEIRGR 446
DB 363 -LALDVTWMP-----YISIVCVISYVIGHALPSPPIALIT-IFLOSRPS 409
QY 447 AFACNSEFNMAANLFIISFLDICTGSMTELLVGLTAVLGLGFIYLPVPTKQSLA 506
DB 410 AFVNGSVHMLSNFTVGLIFPIIDEGIG-PYSFIVFAVICLITTYIFILVETKAKTET 468
QY 507 EIDOPOR 514
DB 469 EINDIFTK 476

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RESULT 15  
 US-08-928-692-10  
 Sequence 10, Application US/08928692  
 Patent No. 5958727

GENERAL INFORMATION:  
 APPLICANT: Brody, Howard  
 APPLICANT: Yaver, Deborah S.  
 APPLICANT: Lamsa, Michael  
 APPLICANT: Hansen, Kim  
 TITLE OF INVENTION: Methods for Modifying the Production of  
 NUMBER OF SEQUENCES: a Polypeptide  
 CORRESPONDENCE ADDRESS: 80

ADDRESSER: No. 59587270 No. 5958727disk of No. 5958727th America, Inc.  
 STREET: 405 Lexington Avenue  
 CITY: New York  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10174  
 COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/928,692  
 FILING DATE: 12-SEP-1997  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lambiris, Elias J  
 REGISTRATION NUMBER: 33,728  
 REFERENCE/DOCKET NUMBER: 4944,200-US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-867-0123  
 TELEFAX: 212-878-9655  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 488 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: No. 5958727e  
 US-08-928-692-10

Query Match 12.0%; Score 331; DB 2; Length 488;  
 Best Local Similarity 23.1%; Pred. No. 1.4e-21;  
 Matches 130; Conservative 84; Mismatches 190; Indels 158; Gaps 15;

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QY 6 PVLPICASVSLIGLTFGEYELAVISGALLPLQLD-----FGL-SCL-----EDEFV 51
DB 13 PVLIVYVFTTGLQIFGYHLELNAQAVITCERSIHSTTRGLPQICPINPQFBLV 72
QY 52 GSL-LGALLASLVGFLIDCYGRKQALLGSNLVLAGSLTLGSLAMLYGRAVGF 110
DB 73 SSIVTGLGLGALLAGPVTSTKGRLEFTLATITFTFLPIAETFPASIPVLSMGRLLSGV 132
QY 111 AISLSMACCIYSELVGRGCVLSLEYAGITVGLISYALNVALAGTPMGRHMGW 170
DB 133 GAGASIVGPIYISLAPSAKGLGAFQIMTNVGLLPSGLFSLKSGM-WRVILAI 191
QY 171 ATPAVLOSLSLELPAGTDETAHKD----- 197
DB 192 AGAIGCLELGLFLVPESPIMLADHQGNVAROVLORIGRADIEBEVGMTSAPEH 251
QY 198 -----LIPLOGEAPKLGPRRYSFLDFRADNMGRRTVGLVLPQOLGCPN 249
DB 252 SSGEQSLSLSPSGNMPKOPPTVMIMRAITDSF-----YRAIIAVGVAVSQFTGVS 306
QY 250 VLYASTIFSSVGFHGGSSAVIASVGAVVAAATLTMGLVDRAGRALLIAGCALMAL 309
DB 307 IIMVSILQTI---LPTTALLSVIISALNVTTLACSPLPDKTIGRSCIL-----L 356
QY 310 SVSGIGLVSPVPMDSGSCIAVPNATGQTGLPGDSGLDSSLPPIRTNEDQREPIIS 369
DB 357 SISGMLNSVL-----ALAI----- 372
QY 370 TAKTKPHPRGDSAPPRLALSALPRLPARGHALLRMTALLCLMVEVSAFSGFGP 429
DB 373 -----YFNKALSAIIVLLFVASFAGLCP 397
QY 430 VTMLVLSIYVPEIRGRAFAFCNSFNMAANLFIISF---LIDICTG-LSTWFLYGLT 485
DB 398 VPFILASELVGPEAVGAAGSMALGANMIAFTIYAQFPPLNDLIGRGKIYIFA--AA 455
QY 486 AVLGIGFIYFVETKQSLAE 507
DB 456 CLIG-SPTIWMVPETKKANAD 476

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Search completed: March 15, 2002, 07:03:47  
 Job time: 4438 sec



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